

ABSTRACT OF THE DISCLOSURE

The present invention can achieve a completely sub-modularized apparatus, prevent frequency thereof from being fluctuated and reduce manufacturing cost thereof. The present invention has a RF oscillator apparatus whose frequency is set in advance and which is compactly sub-modularized; a transceiving module case which is a base substrate; a transceiving module upper cover which is a seal material covering an upper portion of a conductive wall of the RF oscillator apparatus; a RF circuit substrate which is a wiring substrate loading the RF oscillator apparatus and a receiving mixer and the like; and a bonding wire connecting the RF oscillator apparatus and the receiving mixer and the RF circuit substrate to each other. Since the RF oscillator apparatus whose oscillator frequency is set in advance and which is compactly sub-modularized is built into the transceiver apparatus, the RF oscillator apparatus and other RF circuits is easily connected to one another, it is possible to make the transceiver apparatus compact and a structure thereof simply.